```
                  GenCore version 5.1.4_p5_4578
          Copyright (c) 1993 - 2003  Compugen Ltd.

OM protein - protein search, using sw model

Run on:          March 17, 2003, 16:38:57 ; Search time 15 Seconds
                                            (without alignments)
                                            509.997 Million cell updates/sec

Title:           US-09-840-243B-11
Perfect score:   1341
Sequence:        1 MELTQPAEDLIQTQQTPASE..........VIENHILKLFQSNLVPADPE 260

Scoring table:   BLOSUM62
                 Gapop 10.0 , Gapext 0.5

Searched:        262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters:      262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :        Issued_Patents_AA:*
                 1:  /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
                 2:  /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
                 3:  /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
                 4:  /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
                 5:  /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
                 6:  /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

       Pred. No. is the number of results predicted by chance to have a
       score greater than or equal to the score of the result being printed,
       and is derived by analysis of the total score distribution.

                                  SUMMARIES

                    %
 Result             Query                                                  Description
   No.     Score    Match Length DB  ID                            ----------------------
----------------------------------------------------------------   Sequence 1, Appli
    1      1341     100.0    260  2  US-09-172-977-1               Sequence 28, Appl
    2       205      15.3    348  2  US-09-031-485-28              Sequence 28, Appl
    3       205      15.3    348  2  US-08-847-429A-28             Sequence 28, Appl
    4       205      15.3    348  3  US-09-065-474-28              Sequence 28, Appl
    5       205      15.3    348  4  US-09-557-034-28              Sequence 33, Appl
    6       205      15.3   1745  2  US-09-031-485-33              Sequence 33, Appl
    7       205      15.3   1745  2  US-08-847-429A-33             Sequence 33, Appl
    8       205      15.3   1745  3  US-09-065-474-33              Sequence 33, Appl
    9       205      15.3   1745  4  US-09-557-034-33              Sequence 4, Appli
   10     202.5      15.1   1839  2  US-09-172-977-4               Sequence 3, Appli
   11       197      14.7    843  2  US-09-172-977-3               Sequence 2, Appli
   12     187.5      14.0   1088  4  US-09-082-059-2               Sequence 8, Appli
   13       187      13.9    673  4  US-09-196-387-8               Sequence 10, Appl
   14       187      13.9    949  4  US-09-196-387-10              Sequence 2, Appli
   15       187      13.9   1327  4  US-09-196-387-2               Sequence 2, Appli
   16     171.5      12.8    741  2  US-08-462-481-2               Sequence 2, Appli
   17     171.5      12.8    741  2  US-08-436-771-2               Sequence 2, Appli
   18     171.5      12.8    741  2  US-08-434-998-2               Sequence 2, Appli
   19     171.5      12.8    741  2  US-08-487-797-2               Sequence 2, Appli
   20     171.5      12.8    741  2  US-08-701-005A-2              Sequence 2, Appli
   21     171.5      12.8    741  2  US-08-479-895-2               Sequence 2, Appli
   22     171.5      12.8    741  3  US-08-943-956A-2              Sequence 2, Appli
   23     171.5      12.8    741  5  PCT-US95-02058-2              Sequence 4, Appli
   24     169.5      12.6    741  2  US-08-436-771-4               Sequence 4, Appli
   25     169.5      12.6    741  2  US-08-434-998-4               Sequence 4, Appli
   26     169.5      12.6    741  2  US-08-487-797-4               Sequence 4, Appli
   27     169.5      12.6    741  5  PCT-US95-02058-4
```

```
   28     165.5      12.3    452  3  US-09-035-706-2               Sequence 2, Appli
   29     165.5      12.3    452  3  US-08-955-841-2               Sequence 2, Appli
   30     165.5      12.3    452  4  US-09-390-425-2               Sequence 2, Appli
   31     165.5      12.3    452  4  US-09-566-906-2               Sequence 2, Appli
   32       163      12.2    118  4  US-08-934-131-3               Sequence 3, Appli
   33       161      12.0    118  3  US-08-965-904B-2              Sequence 2, Appli
   34       161      12.0    118  4  US-08-934-131-1               Sequence 1, Appli
   35     160.5      12.0    267  4  US-09-071-035-154             Sequence 154, App
   36       159      11.9    238  4  US-09-071-035-156             Sequence 156, App
   37     158.5      11.8    656  4  US-09-605-785-379             Sequence 379, App
   38     158.5      11.8    656  4  US-09-439-313-379             Sequence 379, App
   39     158.5      11.8    656  4  US-09-352-616A-379            Sequence 379, App
   40     158.5      11.8    671  4  US-09-605-785-380             Sequence 380, App
   41     158.5      11.8    671  4  US-09-439-313-380             Sequence 380, App
   42     158.5      11.8    671  4  US-09-352-616A-380            Sequence 380, App
   43     158.5      11.8   1719  4  US-09-605-785-378             Sequence 378, App
   44     158.5      11.8   1719  4  US-09-439-313-378             Sequence 378, App
   45     158.5      11.8   1719  4  US-09-352-616A-378            Sequence 378, App

                                  ALIGNMENTS


RESULT 1
US-09-172-977-1
; Sequence 1, Application US/09172977
; Patent No. 5989863
; GENERAL INFORMATION:
;  APPLICANT: Tang, Y. Tom
;  APPLICANT: Guegler, Karl J.
;  APPLICANT: Corley, Neil C.
;  APPLICANT: Yue, Henry
;  TITLE OF INVENTION: HUMAN ANKYRIN FAMILY PROTEIN
;  FILE REFERENCE: PF-0615 US
;  CURRENT APPLICATION NUMBER: US/09/172,977
;  CURRENT FILING DATE: 1998-10-14
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PERL Program
; SEQ ID NO 1
;   LENGTH: 260
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE: -
;   OTHER INFORMATION: 1808075
US-09-172-977-1

  Query Match             100.0%;  Score 1341;  DB 2;  Length 260;
  Best Local Similarity   100.0%;  Pred. No. 8.5e-130;
  Matches  260;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSS 60

Qy         61 PQAGSSLKHSTTLTNRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKP 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 PQAGSSLKHSTTLTNRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKP 120

Qy        121 DERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERD 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 DERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERD 180

Qy        181 VDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 VDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQ 240

Qy        241 VIENHILKLFQSNLVPADPE 260
              ||||||||||||||||||||
Db        241 VIENHILKLFQSNLVPADPE 260


RESULT 2
US-09-031-485-28
```

```
; Sequence 28, Application US/09031485
; Patent No. 5824306
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  85
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/031,485
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/847,429
;      FILING DATE:  24-APR-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  HW-5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  28:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  348 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-031-485-28

  Query Match             15.3%;  Score 205;  DB 2;  Length 348;
  Best Local Similarity   33.9%;  Pred. No. 7.6e-13;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy         75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
              | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db         28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy        135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
              |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db         81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy        195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
                | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db        141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191

RESULT 3
US-08-847-429A-28
; Sequence 28, Application US/08847429A
; Patent No. 5827692
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  85
;    CORRESPONDENCE ADDRESS:
```

```
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/847,429A
;      FILING DATE:  24-APR-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  HW-5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  28:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  348 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-847-429A-28

  Query Match             15.3%;  Score 205;  DB 2;  Length 348;
  Best Local Similarity   33.9%;  Pred. No. 7.6e-13;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy         75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
              | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db         28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy        135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
              |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db         81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy        195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
                | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db        141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191

RESULT 4
US-09-065-474-28
; Sequence 28, Application US/09065474
; Patent No. 6063599
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  171
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
```

```
;     APPLICATION NUMBER:  US/09/065,474
;     FILING DATE:  24-APR-1998
;     CLASSIFICATION:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Verser, Carol Talkington
;     REGISTRATION NUMBER:  37,459
;     REFERENCE/DOCKET NUMBER:  HW-5-C1
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  970/493-7272
;     TELEFAX:  970/484-9505
; INFORMATION FOR SEQ ID NO:  28:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  348 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
US-09-065-474-28

  Query Match             15.3%;  Score 205;  DB 3;  Length 348;
  Best Local Similarity   33.9%;  Pred. No. 7.6e-13;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy      75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
           | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db      28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy     135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
           |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db      81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy     195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
             | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db     141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191


RESULT 5
US-09-557-034-28
; Sequence 28, Application US/09557034
; Patent No. 6365569
;   GENERAL INFORMATION:
;        APPLICANT: Tang, Liang
;                   Blehm, E. Scot
;        TITLE OF INVENTION: DIROFILARIA AND BRUGIA ANKYRIN
;                            PROTEINS, NUCLEIC ACID MOLECULES, AND
;                            USES THEREOF
;        NUMBER OF SEQUENCES: 171
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Carol Talkington Verser, Ph.D.
;                        Heska Corporation
;             STREET: 1825 Sharp Point Drive
;             CITY: Fort Collins
;             STATE: Colorado
;             COUNTRY: USA
;             ZIP: 80525
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: Windows 95
;             SOFTWARE: WordPerfect for Windows, Version 7.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/557,034
;             FILING DATE: 21-Apr-2000
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/065,474
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Verser, Carol Talkington
;             REGISTRATION NUMBER: 37,459
;             REFERENCE/DOCKET NUMBER: HW-5-C1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 970/493-7272
;             TELEFAX: 970/484-9505
;   INFORMATION FOR SEQ ID NO: 28:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 348 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 28:
US-09-557-034-28

  Query Match             15.3%;  Score 205;  DB 4;  Length 348;
  Best Local Similarity   33.9%;  Pred. No. 7.6e-13;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy      75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
           | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db      28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy     135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
           |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db      81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy     195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
             | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db     141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191


RESULT 6
US-09-031-485-33
; Sequence 33, Application US/09031485
; Patent No. 5824306
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  85
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/031,485
;      FILING DATE:
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/847,429
;      FILING DATE:  24-APR-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  HW-5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  33:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1745 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-031-485-33

  Query Match             15.3%;  Score 205;  DB 2;  Length 1745;
```

```
  Best Local Similarity   33.9%;  Pred. No. 9.4e-12;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy     75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
          | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db     28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy    135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
          |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db     81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy    195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
            | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db    141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191


RESULT 7
US-08-847-429A-33
; Sequence 33, Application US/08847429A
; Patent No. 5827692
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  85
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/847,429A
;      FILING DATE:  24-APR-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  HW-5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  33:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1745 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-847-429A-33

  Query Match             15.3%;  Score 205;  DB 2;  Length 1745;
  Best Local Similarity   33.9%;  Pred. No. 9.4e-12;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy     75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
          | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db     28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy    135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
          |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db     81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy    195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
            | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
```

```
Db    141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191


RESULT 8
US-09-065-474-33
; Sequence 33, Application US/09065474
; Patent No. 6063599
;  GENERAL INFORMATION:
;    APPLICANT:  Tang, Liang
;    APPLICANT:  Blehm, E. Scot
;    TITLE OF INVENTION:  DIROFILARIA AND BRUGIA ANKYRIN
;    TITLE OF INVENTION:  PROTEINS, NUCLEIC ACID MOLECULES, AND
;    TITLE OF INVENTION:  USES THEREOF
;    NUMBER OF SEQUENCES:  171
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/065,474
;      FILING DATE:  24-APR-1998
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  HW-5-C1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  33:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1745 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-065-474-33

  Query Match             15.3%;  Score 205;  DB 3;  Length 1745;
  Best Local Similarity   33.9%;  Pred. No. 9.4e-12;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy     75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
          | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db     28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy    135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
          |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db     81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy    195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
            | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db    141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191


RESULT 9
US-09-557-034-33
; Sequence 33, Application US/09557034
; Patent No. 6365569
;  GENERAL INFORMATION:
;       APPLICANT: Tang, Liang
;                  Blehm, E. Scot
;       TITLE OF INVENTION: DIROFILARIA AND BRUGIA ANKYRIN
;                           PROTEINS, NUCLEIC ACID MOLECULES, AND
;                           USES THEREOF
```

```
;          NUMBER OF SEQUENCES: 171
;          CORRESPONDENCE ADDRESS:
;               ADDRESSEE: Carol Talkington Verser, Ph.D.
;                          Heskà Corporation
;               STREET: 1825 Sharp Point Drive
;               CITY: Fort Collins
;               STATE: Colorado
;               COUNTRY: USA
;               ZIP: 80525
;          COMPUTER READABLE FORM:
;               MEDIUM TYPE: Floppy disk
;               COMPUTER: IBM PC compatible
;               OPERATING SYSTEM: Windows 95
;               SOFTWARE: WordPerfect for Windows, Version 7.0
;          CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/09/557,034
;               FILING DATE: 21-Apr-2000
;               CLASSIFICATION: <Unknown>
;          PRIOR APPLICATION DATA:
;               APPLICATION NUMBER: 09/065,474
;               FILING DATE: <Unknown>
;          ATTORNEY/AGENT INFORMATION:
;               NAME: Verser, Carol Talkington
;               REGISTRATION NUMBER: 37,459
;               REFERENCE/DOCKET NUMBER: HW-5-C1
;          TELECOMMUNICATION INFORMATION:
;               TELEPHONE: 970/493-7272
;               TELEFAX: 970/484-9505
;    INFORMATION FOR SEQ ID NO: 33:
;          SEQUENCE CHARACTERISTICS:
;               LENGTH: 1745 amino acids
;               TYPE: amino acid
;               TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-09-557-034-33

  Query Match             15.3%;  Score 205;  DB 4;  Length 1745;
  Best Local Similarity   33.9%;  Pred. No. 9.4e-12;
  Matches   58;  Conservative   28;  Mismatches   77;  Indels    8;  Gaps    3;

Qy         75 NRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAF 134
              | |  |:  :      | |  : |  | ||:: | || | : :|  :  |   |  ||
Db         28 NSQHSNKGES------SASFLRAARAGNLDRVLELLRSGTD-INTCNANGLNALHLASKE 80

Qy        135 GEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPL 194
              |  | || ||:  ||     ::  :|| :||  |   || :|:|   ::|:   || |||
Db         81 GHHEVVRELLKRKADVDAATRKGNTALHIASLAGQELIVTVLVENGANVNVQSLNGFTPL 140

Qy        195 LYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGY-RKVQQVIEN 244
                | : ||   |  |||  |:     : |:||: :|:  |: | |  ::||
Db        141 YMAAQENHESVVRYLLAHNANQALSTEDGFTPLAVALQQGHDRVVAVLLEN 191

RESULT 10
US-09-172-977-4
; Sequence 4, Application US/09172977
; Patent No. 5989863
; GENERAL INFORMATION:
;  APPLICANT: Tang, Y. Tom
;  APPLICANT: Guegler, Karl J.
;  APPLICANT: Corley, Neil C.
;  APPLICANT: Yue, Henry
;  TITLE OF INVENTION: HUMAN ANKYRIN FAMILY PROTEIN
;  FILE REFERENCE: PF-0615 US
;  CURRENT APPLICATION NUMBER: US/09/172,977
;  CURRENT FILING DATE: 1998-10-14
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PERL Program
; SEQ ID NO 4
;   LENGTH: 1839
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE: -
;   OTHER INFORMATION: g29491
US-09-172-977-4

  Query Match             15.1%;  Score 202.5;  DB 2;  Length 1839;
  Best Local Similarity   29.3%;  Pred. No. 1.8e-11;
  Matches   56;  Conservative   43;  Mismatches   81;  Indels   11;  Gaps    4;

Qy         55 DASVSSPQAGSSLKHSTTLTNRQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGD 114
              ||:  |  :|     |:    | : :: :|        |  : |  | ||:: |:|: |
Db          5 DAAQKS-DSGEKFNGSSQRRKRPKKSDSNA--------SFLRAARAGNLDKVVEYLKGGI 55

Qy        115 NLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVG 174
              : :|  :: |   |  |:  | :  |: ||  |:      |:  :|| :||  |  ::|
Db         56 D-INTCNQNGLNALHLAAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEVVK 114

Qy        175 LLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALG 234
              :|::   :||    || |||  | : ||:  |: ||  ||: :|  : |:||: :|:  |
Db        115 VLVKEGANINAQSQNGFTPLYMAAQENHIDVVKYLLENGANQSTATEDGFTPLAVALQQG 174

Qy        235 YRK-VQQVIEN 244
              : : |  ::||
Db        175 HNQAVAILLEN 185

RESULT 11
US-09-172-977-3
; Sequence 3, Application US/09172977
; Patent No. 5989863
; GENERAL INFORMATION:
;  APPLICANT: Tang, Y. Tom
;  APPLICANT: Guegler, Karl J.
;  APPLICANT: Corley, Neil C.
;  APPLICANT: Yue, Henry
;  TITLE OF INVENTION: HUMAN ANKYRIN FAMILY PROTEIN
;  FILE REFERENCE: PF-0615 US
;  CURRENT APPLICATION NUMBER: US/09/172,977
;  CURRENT FILING DATE: 1998-10-14
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PERL Program
; SEQ ID NO 3
;   LENGTH: 843
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
;   FEATURE: -
;   OTHER INFORMATION: g1841966
US-09-172-977-3

  Query Match             14.7%;  Score 197;  DB 2;  Length 843;
  Best Local Similarity   32.4%;  Pred. No. 2e-11;
  Matches   48;  Conservative   35;  Mismatches   63;  Indels    2;  Gaps    2;

Qy         98 AAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKER 157
              |  | ||:: |:|: | : :|  :: |   |  |:  | :  |: ||  |:      |:
Db          4 ARAGNLDKVVEYLKGGID-INTCNQNGLNALHLAAKEGHVGLVQELLGRGSSVDSATKKG 62

Qy        158 ESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLT 217
               :|| :||  |  ::| :|::   :||    || |||  | : ||:  |: ||  ||: :
Db         63 NTALHIASLAGQAEVVKVLVKEGANINAQSQNGFTPLYMAAQENHIDVVKYLLENGANQS 122

Qy        218 TEADSGYTPMDLAVALGYRK-VQQVIEN 244
              |  : |:||: :|:  |: : |  ::||
Db        123 TATEDGFTPLAVALQQGHNQAVAILLEN 150

RESULT 12
US-09-082-059-2
; Sequence 2, Application US/09082059A
; Patent No. 6225086
; GENERAL INFORMATION:
;  APPLICANT: Morrow, Jon S.
;  APPLICANT: Devarajan, Prasad
;  TITLE OF INVENTION: No. 6225086el Ankyrin Proteins and a Method for Their Identificat
```

```
;  FILE REFERENCE: 44574-5002-US
;  CURRENT APPLICATION NUMBER: US/09/082,059A
;  CURRENT FILING DATE: 1998-05-21
;  EARLIER APPLICATION NUMBER: 60/047356
;  EARLIER FILING DATE: 1997-05-21
;  NUMBER OF SEQ ID NOS: 19
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 1088
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-082-059-2

  Query Match             14.0%;  Score 187.5;  DB 4;  Length 1088;
  Best Local Similarity   25.5%;  Pred. No. 2.8e-10;
  Matches   62;  Conservative   44;  Mismatches   76;  Indels   61;  Gaps    6;

Qy       62 QAGSSLKHSTT-------LTNRQRGNEVSALPATLD---SLSI---------HQLAAQGE 102
            | |:|   :||       |: |:   :|:|    ||   ||||         |  |  |:
Db      141 QQGASPNAATTSGYTPLHLSAREGHEDVAAF--LLDHGASLSITTKKGFTPLHVAAKYGK 198

Qy      103 LDQLKEHLRKGDNLVNKPD------------------------------------ERGFT 126
            |:     |:|  :    ||                                    : |:|
Db      199 LEVANLLLQKSAS----PDAAGKSGLTPLHVAAHYDNQKVALLLLDQGASPHAAAKNGYT 254

Qy      127 PLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIVGLLLERDVDINIY 186
            ||  |:   :::    |||:||| : : ::  ::: ||:  |: |:| ||| |: ::|:
Db      255 PLHIAAKKNQMDIATTLLEYGADANAVTRQGIASVHLAAQEGHVDMVSLLLGRNANVNLS 314

Qy      187 DWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHI 246
            : :| |||  | : : |   | |: :|| :  :   ||||: :    |  |:   :  |
Db      315 NKSGLTPLHLAAQEDRVNVAEVLVNQGAHVDAQTKMGYTPLHVGCHYGNIKIVNFLLQHS 374

Qy      247 LKL 249
             |:
Db      375 AKV 377

RESULT 13
US-09-196-387-8
; Sequence 8, Application US/09196387
; Patent No. 6277613
;  GENERAL INFORMATION:
;    APPLICANT:  de Lange, Titia
;    APPLICANT:  Smith, Susan
;    TITLE OF INVENTION:  A PROTEIN THAT BINDS TO TRF1 AND METHODS
;    TITLE OF INVENTION:  OF USE THEREOF
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Klauber & Jackson
;      STREET:  411 Hackensack Avenue, 4th Floor
;      CITY:  Hackensack
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07601
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/196,387
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/095,225
;      FILING DATE:  June 10, 1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jackson Esq., David A.
;      REGISTRATION NUMBER:  26,742
;      REFERENCE/DOCKET NUMBER:  600-1-230 CIP1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-487-5800
;      TELEFAX:  201-343-1684
;      TELEX:  133521
;   INFORMATION FOR SEQ ID NO:  8:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 673 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-196-387-8

  Query Match             13.9%;  Score 187;  DB 4;  Length 673;
  Best Local Similarity   24.3%;  Pred. No. 1.5e-10;
  Matches   72;  Conservative   36;  Mismatches  112;  Indels   76;  Gaps    9;

Qy       18 ASELGDPEDPGEEAADGSDTV-VLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTNR 76
            :|    |  ||   |:  :   | |  |  |    |        |    :|:    |
Db      137 SSSSSSPSSPGSSLAESPEAAGVSSTAPLGPGAAGP----GTGVPAVSGALRE---LLEA 189

Qy       77 QRGNEVSALPATLDSLSI-------------HQLAAQGELDQLKEHLRKGDNLVNKPDER 123
             |  :|| :   :|: ::             |  |  |  | ::  |: | | |:  |:
Db      190 CRNGDVSRVKRLVDAANVNAKDMAGRKSSPLHFAAGFGRKDVVEHLLQMGAN-VHARDDG 248

Qy      124 GFTPLIWASAFGEIETVRFLL-----------EW-----------------------GADP 150
            |  ||  | :||  | |  ||           |                       ||||
Db      249 GLIPLHNACSFGHAEVVSLLLCQGADPNARDNWNYTPLHEAAIKGKIDVCIVLLQHGADP 308

Qy      151 HILAKERESALSLAS-------TGGY---------------TDIVGLLLERDVDINIYDWN 189
            :|   : :||| ||        || |                ::  ||   :|: :  |
Db      309 NIRNTDGKSALDLADPSAKAVLTGEYKKDELLEAARSGNEEKLMALLTPLNVNCHASDGR 368

Qy      190 GGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENH 245
              |||  |   | |: |: ||  |||:  :   |  |:  | : |: :| :::  |
Db      369 KSTPLHLAAGYNRVRIVQLLLQHGADVHAKDKGGLVPLHNACSYGHYEVTELLLKH 424

RESULT 14
US-09-196-387-10
; Sequence 10, Application US/09196387
; Patent No. 6277613
;  GENERAL INFORMATION:
;    APPLICANT:  de Lange, Titia
;    APPLICANT:  Smith, Susan
;    TITLE OF INVENTION:  A PROTEIN THAT BINDS TO TRF1 AND METHODS
;    TITLE OF INVENTION:  OF USE THEREOF
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Klauber & Jackson
;      STREET:  411 Hackensack Avenue, 4th Floor
;      CITY:  Hackensack
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07601
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/196,387
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/095,225
;      FILING DATE:  June 10, 1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jackson Esq., David A.
;      REGISTRATION NUMBER:  26,742
;      REFERENCE/DOCKET NUMBER:  600-1-230 CIP1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-487-5800
;      TELEFAX:  201-343-1684
;      TELEX:  133521
;   INFORMATION FOR SEQ ID NO:  10:
```

```
;    SEQUENCE CHARACTERISTICS:
;      LENGTH: 949 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-196-387-10

  Query Match             13.9%;  Score 187;  DB 4;  Length 949;
  Best Local Similarity   24.3%;  Pred. No. 2.6e-10;
  Matches   72;  Conservative   36;  Mismatches  112;  Indels   76;  Gaps    9;

Qy         18 ASELGDPEDPGEEAADGSDTV-VLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTNR 76
              :|    |  ||   |:  :   | |  |  |    |        |    :|:    |
Db        137 SSSSSSPSSPGSSLAESPEAAGVSSTAPLGPGAAGP----GTGVPAVSGALRE---LLEA 189

Qy         77 QRGNEVSALPATLDSLSI-------------HQLAAQGELDQLKEHLRKGDNLVNKPDER 123
               |  :|| :   :|: ::             |  |  |  | ::  |: | | |:  |:
Db        190 CRNGDVSRVKRLVDAANVNAKDMAGRKSSPLHFAAGFGRKDVVEHLLQMGAN-VHARDDG 248

Qy        124 GFTPLIWASAFGEIETVRFLL----------EW-----------------------GADP 150
              |  ||  | :||  | |  ||           |                       ||||
Db        249 GLIPLHNACSFGHAEVVSLLLCQGADPNARDNWNYTPLHEAAIKGKIDVCIVLLQHGADP 308

Qy        151 HILAKERESALSLAS-------TGGY--------------TDIVGLLLERDVDINIYDWN 189
              :|   : :||| ||        || |                ::  ||   :|: :  |
Db        309 NIRNTDGKSALDLADPSAKAVLTGEYKKDELLEAARSGNEEKLMALLTPLNVNCHASDGR 368

Qy        190 GGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENH 245
                |||  |   | |: |: ||  |||:  :   |  |:  | : |: :| :::  |
Db        369 KSTPLHLAAGYNRVRIVQLLLQHGADVHAKDKGGLVPLHNACSYGHYEVTELLLKH 424

RESULT 15
US-09-196-387-2
; Sequence 2, Application US/09196387
; Patent No. 6277613
;  GENERAL INFORMATION:
;    APPLICANT:  de Lange, Titia
;    APPLICANT:  Smith, Susan
;    TITLE OF INVENTION:  A PROTEIN THAT BINDS TO TRF1 AND METHODS
;    TITLE OF INVENTION:  OF USE THEREOF
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Klauber & Jackson
;      STREET:  411 Hackensack Avenue, 4th Floor
;      CITY:  Hackensack
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07601
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/196,387
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/095,225
;      FILING DATE:  June 10, 1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jackson Esq., David A.
;      REGISTRATION NUMBER:  26,742
;      REFERENCE/DOCKET NUMBER:  600-1-230 CIP1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-487-5800
;      TELEFAX:  201-343-1684
;      TELEX:  133521
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1327 amino acids
;      TYPE:  amino acid
```

```
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-09-196-387-2

  Query Match             13.9%;  Score 187;  DB 4;  Length 1327;
  Best Local Similarity   24.3%;  Pred. No. 4.3e-10;
  Matches   72;  Conservative   36;  Mismatches  112;  Indels   76;  Gaps    9;

Qy         18 ASELGDPEDPGEEAADGSDTV-VLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTNR 76
              :|    |  ||   |:  :   | |  |  |    |        |    :|:    |
Db        137 SSSSSSPSSPGSSLAESPEAAGVSSTAPLGPGAAGP----GTGVPAVSGALRE---LLEA 189

Qy         77 QRGNEVSALPATLDSLSI-------------HQLAAQGELDQLKEHLRKGDNLVNKPDER 123
               |  :|| :   :|: ::             |  |  |  | ::  |: | | |:  |:
Db        190 CRNGDVSRVKRLVDAANVNAKDMAGRKSSPLHFAAGFGRKDVVEHLLQMGAN-VHARDDG 248

Qy        124 GFTPLIWASAFGEIETVRFLL----------EW-----------------------GADP 150
              |  ||  | :||  | |  ||           |                       ||||
Db        249 GLIPLHNACSFGHAEVVSLLLCQGADPNARDNWNYTPLHEAAIKGKIDVCIVLLQHGADP 308

Qy        151 HILAKERESALSLAS-------TGGY--------------TDIVGLLLERDVDINIYDWN 189
              :|   : :||| ||        || |                ::  ||   :|: :  |
Db        309 NIRNTDGKSALDLADPSAKAVLTGEYKKDELLEAARSGNEEKLMALLTPLNVNCHASDGR 368

Qy        190 GGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENH 245
                |||  |   | |: |: ||  |||:  :   |  |:  | : |: :| :::  |
Db        369 KSTPLHLAAGYNRVRIVQLLLQHGADVHAKDKGGLVPLHNACSYGHYEVTELLLKH 424

Search completed: March 17, 2003, 16:41:31
Job time : 21 secs
```